YANLIANG HAN

skywalkerhunter@gmail.com

LANGUAGES AND TECHNOLOGIES

- SQL; C++, C, Java and C#; ASP.NET, PHP, Python, HTML5, CSS3, JavaScript, XML; Matlab; OCaml; Smalltalk.
- MVC, Eclipse, VS; Stored Procedure, Indexing, MySQL, SQL Server; GitHub, SVN and TFS; Linux, Mac OS; OpenCV, Scalable Web, Information System, Responsive UI design, Image processing, Computer Vision, Security.

EMPLOYMENT

Graduate Assistant   **Database and Information Systems Laboratory in Univ. of Illinois**   **Jan 2012 - May 2012**

- Refactor and speed up (by 70%) rendering data list performance from MySQL to .NET website.
- Improved security by encrypting sensitive communications and hashing User passwords.
- Integrated TextCube, TopicCube modules into the NASA eventCube Data Mining system.

Software Development Engineer Intern   **Microsoft Corp.**   **Sep 2011 - Dec 2011**

Global Information System for international banking.

- Design the XML schema and implement the Semi-automatic Batch Import, Audit and Publish modules with it.
- Implement the Advanced Search and Statistic Management Modules with Optimized Stored Procedure and Indexing.
- Speed up testing by coordinating 4 teammates executing Web Performance, Load Testing and Performance Analysis.

Research Assistant   **Guangdong Key Laboratory of Information Security**   **Dec 2009 – Aug 2010**

- Implement the MIT Kerberos authentication protocol from sketch/TCP.
- Implement Shamir Visual Secret Sharing across Windows Phone and PC platforms.
- Lead my team and win the 3rd Prize in National Information Security Contest among over 500 top competitors.

Research Assistant   **Media Lab**   **May 2010 – July 2010**

- Implement Feature detection, Segmentation and Numerical Recognition (SVM) for paper money.

EDUCATION

Champaign, IL   **University of Illinois at Urbana-Champaign (UIUC)**   **Spring 2012 - Fall 2013**

M.C.S. in Computer Science   Last-year GPA: 3.445

- Advanced Coursework: Advanced Data Mining; Computer Vision; Applied Cryptography; Object Oriented Programming and Design; Independent Study.
- Graduate Coursework: Text Information Systems; Database Systems; Programming Languages and Compilers; UI Design.

Guangzhou, P.R.C.   **Sun Yat-sen University (SYSU)**   **Fall 2007 - Spring 2011**

B.E. in Software Engineering   In-Major GPA: 3.43

- Selected Coursework: Algorithms; Computer Vision; Unified Communication; Software Engineering; Numerical Method; Operating Systems; Database System Principle; Information Security; Linux Analyze and Application.

PROJECTS

- **Open Source Algorithms Demonstration (2013):** Dynamic Programming, Bit Manipulation, Sorting, String process. Unordered-map/ Hash Table, Unordered Set, Linked list, Vector, Binary Search Tree and backtracking.
- **Algorithms Fantasy Template Library (AFTL) for C++ & JAVA (2013):** Randomized-Quicksort 190% efficient than the mature Merge-sort; Binary search tree; Rotated array Stack, Queue, Heap and Vector/ ArrayList.
- **Panorama Stitching, 3D Reconstruction and Affine Factorization (2013).** Matlab-implement Computer Vision project with 4.0 GPA. RANSAC and Homography Transform.
- **Illini Tutor Search (2012).** Selected demo in class with full credit. Web application with extensive database design.
- **Object Oriented Tic-tac-toe (2013).** Implement Ultimate Tic-tac-toe with Artificial Intelligence.
- **Simulation System for Grasslands Ecosystems (2009).** Architecture design and JAVA implementation.

AWARDS

- 2008-2010 Twice awarded 3rd-Prize Scholarship for Academic Excellence by SYSU
- 2009-2010 3rd Prize in National Information Security Contest issued by The Ministry of Education
- 2009-2010 3rd Prize in ACM Programming Contest held by SYSU
- 2009-2010 3rd Prize in Mobile Terminal Software Innovation Contest